

Amendments to the Claims

Please amend Claims 8, 13, 14 and 16. Please add new Claims 19-32. The Claim Listing below will replace all prior versions of the claims in the application:

Claim Listing

- Claim 1 (original): A method of sorting undifferentiated cells, wherein said method comprises contacting undifferentiated cells with an antibody to a cell-surface antigen, and sorting the undifferentiated cells according to the presence or absence of the binding to the antibody.
- Claim 2 (original): The method of claim 1, wherein the cell-surface antigen is selected from the group consisting of PECAM-1, SSEA-1, SSEA-3, and SSEA-4.
- Claim 3 (original): The method of claim 1, wherein the undifferentiated cells are embryonic stem (ES) cells derived from mammals or embryonic germ (EG) cells derived from mammals.
- Claim 4 (original): The method of claim 1, wherein the undifferentiated cells are transgenic.
- Claim 5 (original): The method of claim 2, wherein undifferentiated cells that bind to antibody to PECAM-1 is sorted out.
- Claim 6 (original): The method of claim 5, wherein undifferentiated cells that bind to both an antibody to PECAM-1 and an antibody to SSEA-1 are sorted out.
- Claim 7 (original): The method of claim 5, wherein undifferentiated cells that bind to an antibody to PECAM-1, an antibody to SSEA-3, and an antibody to SSEA-4 are sorted out.

- Claim 8 (currently amended): An undifferentiated cell obtained by the method of claim 5 ~~any one of claims 5, 6, and 7.~~
- Claim 9 (original): An isolated undifferentiated cell binding to an antibody to PECAM-1.
- Claim 10 (original): An isolated undifferentiated cell binding to an antibody to PECAM-1 and an antibody to SSEA-1.
- Claim 11 (original): An isolated undifferentiated cell binding to an antibody to PECAM-1, an antibody to SSEA-3, and an antibody to SSEA-4.
- Claim 12 (original): A host embryo comprising the undifferentiated cell of claim 8.
- Claim 13 (currently amended): A host ~~The~~ embryo comprising the undifferentiated cell of claim 8 ~~±2~~, wherein the embryo is constructed by injection of the undifferentiated cell of claim 8 into a fertilized embryo, or aggregation of that undifferentiated cell with a fertilized embryo.
- Claim 14 (currently amended): A host ~~The~~ embryo comprising the undifferentiated cell of claim 8 ~~±2~~, wherein said embryo is constructed by injection or fusion of the undifferentiated cell of claim 8 to an enucleated unfertilized oocyte.
- Claim 15 (original): A differentiated tissue complex derived from the undifferentiated cell of claim 8.
- Claim 16 (currently amended): A ~~The~~ differentiated tissue complex derived from the undifferentiated cell of claim 8 ~~±5~~, wherein said complex is constructed by inducing differentiation by *in vitro* culture or *in vivo* transplantation of the undifferentiated cell of claim 8.

- Claim 17 (original): A surrogate mother comprising the embryo of claim 12.
- Claim 18 (original): A fetus, baby, or descendants obtained from the surrogate mother of claim 17.
- Claim 19 (new): An undifferentiated cell obtained by the method of claim 6.
- Claim 20 (new): An undifferentiated cell obtained by the method of claim 7.
- Claim 21 (new): A host embryo comprising the undifferentiated cell of claim 19.
- Claim 22 (new): A host embryo comprising the undifferentiated cell of claim 20.
- Claim 23 (new): A host embryo comprising the undifferentiated cell of claim 19, wherein the embryo is constructed by injection of the undifferentiated cell of claim 19 into a fertilized embryo, or aggregation of that undifferentiated cell with a fertilized embryo.
- Claim 24 (new): A host embryo comprising the undifferentiated cell of claim 20, wherein the embryo is constructed by injection of the undifferentiated cell of claim 20 into a fertilized embryo, or aggregation of that undifferentiated cell with a fertilized embryo.
- Claim 25 (new): A host embryo comprising the undifferentiated cell of claim 19, wherein said embryo is constructed by injection or fusion of the undifferentiated cell of claim 19 to an enucleated unfertilized oocyte.

- Claim 26 (new): A host embryo comprising the undifferentiated cell of claim 20, wherein said embryo is constructed by injection or fusion of the undifferentiated cell of claim 20 to an enucleated unfertilized oocyte.
- Claim 27 (new): A differentiated tissue complex derived from the undifferentiated cell of claim 19.
- Claim 28 (new): A differentiated tissue complex derived from the undifferentiated cell of claim 20.
- Claim 29 (new): A differentiated tissue complex derived from the undifferentiated cell of claim 19, wherein said complex is constructed by inducing differentiation by *in vitro* culture or *in vivo* transplantation of the undifferentiated cell of claim 19.
- Claim 30 (new): A differentiated tissue complex derived from the undifferentiated cell of claim 20, wherein said complex is constructed by inducing differentiation by *in vitro* culture or *in vivo* transplantation of the undifferentiated cell of claim 20.
- Claim 31 (new): A surrogate mother comprising the embryo of claim 21.
- Claim 32 (new): A surrogate mother comprising the embryo of claim 22.
- Claim 33 (new): A fetus, baby, or descendants obtained from the surrogate mother of claim 31.
- Claim 34 (new): A fetus, baby, or descendants obtained from the surrogate mother of claim 32.